

Curriculum Vitae

Hoen-oh Shin Professor, Dr. med.
d.o.b. October 20th, 1966, Pusan, Korea

University Education

2012 Associate Professor of Radiology, Medical School Hannover
2007 Habilitation (“venia legendi”) in Diagnostic Radiology, Medical School Hannover
1997 Dr. med., Medical School Hannover
1994 Graduation in Medicine (Approbation, Medical School Hannover)

Employment

2004– present Consultant radiologist, Medical School Hannover
2001– 2003 Research fellow, Diagnostic Radiology, Medical School Hannover
1998– 2000 Resident in Radiology (Medical School Hannover)
1997– 1998 Resident in Radiology / Neuroradiology (University of Greifswald)
1994– 1997 Resident in Radiology / Radiation Therapy (Medical School Hannover)

Patents

Shin. H.: Method for processing computed tomography imaging data of a suspect`s respiratory system, int'l patent nr. PCT/EP2019/057874 (2019)

Shin. H.: Processing model data representing a biological body section having a defect portion, EU nr. 13003407.7 (2018)

Shin, H.: Generating Model Data representing a Biological Body Section
US 8527244 B2 Patent (2013)

Top-10 selected Publications

1: Van den Berg C, Dittrich J, Scharm SC, Cornelia Schaefer-Prokop C, Dettmer S, Hunkemoeller A, Eckstein J, Glandorf J, Wacker F, Poehler G, Shin HO. CT-based lung ventilation metrics: reference ranges and pulmonary function test correlations in healthy individuals, Eur Radiol. 2022 (in press), DOI : 10.1007/s00330-026-12559-8

2: Scharm SC, Schaefer-Prokop C, Schreuder A, Ehmig J, Hunkemöller A, Fuge J, Seeliger B, Schupp J, Wacker FK, Shin HO. Extent of alveolar collapse in expiratory CT as a prognostic marker in idiopathic pulmonary fibrosis. PLoS One.

2026 Mar 17;21(3):e0345308. doi: 10.1371/journal.pone.0345308. PMID: 41843601; PMCID: PMC12994813.

3: Scharm SC, Schaefer-Prokop C, Winther HB, Huisinga C, Werncke T, Vogel-Claussen J, Wacker FK, Shin HO. Regional Pulmonary Morphology and Function: Photon-counting CT Assessment. *Radiology*. 2023 Jul;308(1):e230318. doi: 10.1148/radiol.230318. PMID: 3743

4: Scharm SC, Schaefer-Prokop C, Willmann M, Vogel-Claussen J, Knudsen L, Jonigk D, Fuge J, Welte T, Wacker F, Prasse A, Shin HO. Increased regional ventilation as early imaging marker for future disease progression of interstitial lung disease: a feasibility study. *Eur Radiol*. 2022 Sep;32(9):6046-6057. doi: 10.1007/s00330-022-08702-w. Epub 2022 Mar 31. PMID: 35357537; PMCID: PMC9381456.

5: Scharm SC, Vogel-Claussen J, Schaefer-Prokop C, Dettmer S, Knudsen L, Jonigk D, Fuge J, Apel RM, Welte T, Wacker F, Prasse A, Shin HO. Quantification of dual-energy CT-derived functional parameters as potential imaging markers for progression of idiopathic pulmonary fibrosis. *Eur Radiol*. 2021 Sep;31(9):6640-6651. doi: 10.1007/s00330-021-07798-w. Epub 2021 Mar 16. PMID: 33725189; PMCID: PMC8379131.

6: Solyanik O, Hollmann P, Dettmer S, Kaireit T, Schaefer-Prokop C, Wacker F, Vogel-Claussen J, Shin HO. Quantification of Pathologic Air Trapping in Lung Transplant Patients Using CT Density Mapping: Comparison with Other CT Air Trapping Measures. *PLoS One*. 2015 Oct 2;10(10):e0139102. doi: 10.1371/journal.pone.0139102. PMID: 26430890; PMCID: PMC4592198.

7: von Falck C, Bratanova V, Rodt T, Meyer B, Waldeck S, Wacker F, Shin HO. Influence of sinogram affirmed iterative reconstruction of CT data on image noise characteristics and low-contrast detectability: an objective approach. *PLoS One*. 2013;8(2):e56875. doi: 10.1371/journal.pone.0056875. Epub 2013 Feb 13. PMID: 23468886; PMCID: PMC3572072.

8: von Falck C, Rodt T, Waldeck S, Hartung D, Meyer B, Wacker F, Shin HO. A systematic approach towards the objective evaluation of low-contrast performance in MDCT: combination of a full-reference image fidelity metric and a software phantom. *Eur J Radiol*. 2012 Nov;81(11):3166-71. doi: 10.1016/j.ejrad.2012.06.003. Epub 2012 Jun 29. PMID: 22748556.

9: von Falck C, Hollmann P, Rodt T, Waldeck S, Meyer B, Wacker F, Shin HO. Influence of multiplanar reformations on low-contrast performance in thin-collimated multidetector computed tomography. *Invest Radiol*. 2011 Oct;46(10):632-8. doi: 10.1097/RLI.0b013e31821e3080. PMID: 21577122.

10: von Falck C, Hartung A, Berndzen F, King B, Galanski M, Shin HO. Optimization of low-contrast detectability in thin-collimated modern multidetector CT using an interactive sliding-thin-slab averaging algorithm.

Invest Radiol. 2008 Apr;43(4):229-35. doi: 10.1097/RLI.0b013e3181614f2d. PMID:
18340246.